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PEGGY M. HATCH
SECRETARY

State of Louisiana
DEPARTMENT OF ENVIRONMENTAL QUALITY
ENVIRONMENTAL SERVICES

Certified Mail No.:

Activity No.: PER20090002
Agency Interest No.: 25990

Mr. Keith O. Westmoreland
Vice President
Phoenix Exploration Company, LP
333 Clay Street Suite 2000
Houston, TX 77002

RE: Permit, SE Avery Island McIlhenny #1 Production Barge, Phoenix Exploration Co LP
Avery Island, Iberia Parish, Louisiana

Dear Mr. Westmoreland:

This is to inform you that the permit modification request for the above referenced facility has been approved under LAC 33:III.501. The submittal was approved on the basis of the emissions reported and the approval in no way guarantees the design scheme presented will be capable of controlling the emissions as to the types and quantities stated. A new application must be submitted if the reported emissions are exceeded after operations begin. The synopsis, data sheets, and conditions are attached herewith.

It will be considered a violation of the permit if all proposed control measures and/or equipment are not installed and properly operated and maintained as specified in the application.

Also enclosed is a document entitled "General Information." Please be advised that this document contains a summary of facility-level information contained in LDEQ's TEMPO database and is not considered a part of the permit. Please review the information contained in this document for accuracy and completeness. If any changes are required or if you have questions regarding this document, you may email your changes to facupdate@la.gov.

Please be advised that pursuant to provisions of the Environmental Quality Act and the Administrative Procedure Act, the Department may initiate review of a permit during its term. However, before it takes any action to modify, suspend or revoke a permit, the Department shall, in accordance with applicable statutes and regulations, notify the permittee by mail of the facts or operational conduct that warrant the intended action and provide the permittee with the opportunity to demonstrate compliance with all lawful requirements for the retention of the effective permit.

The permit number cited below and agency interest number cited above should be referenced in future correspondence regarding this facility.

Done this _____ day of _____, 2010.

Permit No.: 1260-00070-05

Sincerely,

Cheryl Sonnier Nolan
Assistant Secretary
CSN:tbk

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

SE Avery Island McIlhenny #1 Production Barge
Agency Interest No.: 25990
Phoenix Exploration Co LP
Avery Island, Iberia Parish, Louisiana

I. BACKGROUND

Phoenix Exploration Co LP, SE Avery Island McIlhenny #1 Production Barge, an existing oil and gas production facility, began operation in 1998. The SE Avery Island McIlhenny #1 Production Barge currently operates under Permit No. 1260-00070-04, issued February 5, 2009.

II. ORIGIN

A permit application and Emission Inventory Questionnaire (EIQ) dated November 11, 2009 were received requesting a permit.

III. DESCRIPTION

The facility used to treat and handle production from the E.A. McIlhenny # 4 well production. Production from this well is routed to a low pressure separator. Gas from the separator is compressed and discharged through two glycol contact towers in series for drying. The glycol dehydration units are equipped with condensing units where vapors are routed to a flare for combustion and condensed liquids are collected. Water from the lower pressure separator is routed to a gun barrel tank for further separation. Water from the gun barrel tank is routed to an on-site tank for storage tank injected downhole for disposal. Oil from the gun barrel tank is routed to an on-site tank for storage. Oil from the low pressure separator is routed to a heater treater for further separation. Off-gas from the heater treater is routed to the flare for combustion. Oil from the heater treater is routed to on-site tanks for storage prior to being routed a storage barge until hauled by marine barge for sales. Any water from the heater treater would be routed to the gun barrel tank. Vapors from the storage tanks are routed to the flare for combustion. Vapors from the storage barge are vented to atmosphere.

In this permit modification, Phoenix Exploration Co LP proposes to make the following changes:

- 1) Add a CAP which represents the combined emission totals from EPNs: 52-09-ICE-ES and 53-09-ICE-ES (generator systems). The operation of these sources is alternated and the combined runtime will not exceed 8760 hrs/yr.
- 2) The revision of emission limits from EPN: 20-02-ICE-ES (gas compressor system) and EPNs: 52-09-ICE-ES and 53-09-ICE-ES based on current facility conditions.

**AIR PERMIT BRIEFING SHEET
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**SE Avery Island McIlhenny #1 Production Barge
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Phoenix Exploration Co LP
Avery Island, Iberia Parish, Louisiana**

Estimated emissions from this facility in tons per year are as follows:

Pollutant	Before	After	Change
PM ₁₀	1.78	1.27	-0.51
SO ₂	0.60	0.57	-0.03
NO _x	91.74	91.53	-0.21
CO	98.91	96.64	-2.27
VOC*	94.71	82.63	-12.08

*VOC speciation in tons per year:

LAC 33:III. Chapter 51 Toxic Air Pollutants TAP's			
Pollutant	Before	After	Change
2,2,4-Trimethylpentane	0.10	0.07	-0.03
Acetaldehyde	0.10	0.04	-0.06
Benzene	0.23	0.24	+0.01
Biphenyl	0.02	0.01	-0.01
Formaldehyde	2.61	1.19	-1.42
Methanol	0.13	0.07	-0.06
n-Hexane	4.26	4.26	-
Toluene	0.15	0.15	-
Xylenes	0.05	0.05	-
Total TAP's	7.65	6.08	-1.57
Other VOC's	87.06	76.55	-10.51
Total VOC's	94.71	82.63	-12.08

IV. TYPE OF REVIEW

This permit was reviewed for compliance with Louisiana Air Quality Regulations and National Emission Standards for Hazardous Air Pollutants (NESHAP). New Source Performance Standards (NSPS) and Prevention of Significant Deterioration (PSD) do not apply.

This facility is a minor source of LAC 33:III.Chapter 51 Toxic Air Pollutants (TAPs) and an affected area source of 40 CFR 63 Subpart ZZZZ – National Emission Standards for Hazardous Air Pollutants for Reciprocating Internal Combustion Engines.

AIR PERMIT BRIEFING SHEET
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SE Avery Island McIlhenny #1 Production Barge
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Phoenix Exploration Co LP
Avery Island, Iberia Parish, Louisiana

V. PUBLIC NOTICE

Public notice is required for CAP to limit engine operating time.

VI. EFFECTS ON AMBIENT AIR

Emissions associated with the proposed facility modification were reviewed by the Air Quality Assessment Division to ensure compliance with the NAAQS and AAS. LDEQ did not require the applicant to model emissions.

VII. GENERAL CONDITION XVII ACTIVITIES

Work Activity	Schedule	PM ₁₀	Emission Rates - tons			
			SO ₂	NO _x	CO	VOC
Miscellaneous Sampling Procedures		-	-	-	-	0.25
Compressor Blowdown Associated with Regular Maintenance	4 times/month	-	-	-	-	1.20
Pump Preparation		-	-	-	-	0.13
Line Preparation		-	-	-	-	0.25
Filter Preparation		-	-	-	-	0.20
Vessel Preparation		-	-	-	-	0.05
Instrumentation Mechanical Work		-	-	-	-	0.10
Tank Cleaning for Inspection/Services		-	-	-	-	0.38

VIII. INSIGNIFICANT ACTIVITIES

ID No.:	Description	Citation
003	Heater Treater (0.5 MM BTU/hr)	LAC 33:III.501.B.5.A.5
006	Line Heater (1.5 MM BTU/hr)	LAC 33:III.501.B.5.A.1
34-02-LOT	Two Lube Oil Tanks (55 gallons/each)	LAC 33:III.501.B.5.A.2
35-02-ST	Eight Chemical Storage Tanks (120 gallons/each)	LAC 33:III.501.B.5.A.2
56-09-LOT	One Lube Oil Tank (150 gallons)	LAC 33:III.501.B.5.A.2
45-02-Sump	Two Sumps (1000 gallons/each)	LAC 33:III.501.B.5.A.3

General Information

AI ID: 25990 SE Avery Island McIlhenny #1 Production Barge
Activity Number: PER20090002
Permit Number: 1280-00070-05
Air - Minor (Synthetic) Modification

Also Known As:	ID	Name	User Group	Start Date
	1260-00070	SE Avery Island McIlhenny #1 Production Barge	CDS Number	06-25-2001
	LA0116734	LPDES #	LPDES Permit #	10-30-2002
	LAG33A356	LPDES #	LPDES Permit #	03-11-2006
		Phoenix Exploration Co LP	Multimedia	09-29-2006
		Phoenix Exploration Co LP	Multimedia	09-29-2006

Main FAX: 7137562500
Main Phone: 7137562482

Physical Location: 3.5 Mi SE of Avery Island, LA 70000
Mailing Address: 1200 Smith St Ste 1700 Houston, TX 77002
Location of Front Gate: 29.875833 latitude, -91.856944 longitude, Coordinate Method: Lat,Long. - DMS, Coordinate Datum: NAD83

Related People:	Name	Mailing Address	Phone (Type)	Relationship
	Gordon Ganaway	PO Box 4544 Houston, TX 772104544	2815985710 (WP)	Emission Inventory Contact for
	Gordon Ganaway	PO Box 4544 Houston, TX 772104544	GORDON.GANAWA	Emission Inventory Contact for
	Keith Westmoreland	1200 Smith St Ste 1700 Houston, TX 77002	7137562482 (WP)	Emission Inventory Contact for
	Keith Westmoreland	1200 Smith St Ste 1700 Houston, TX 77002	KWESTMORELAND	Responsible Official for
	Keith Westmoreland	1200 Smith St Ste 1700 Houston, TX 77002	KWESTMORELAND	Emission Inventory Contact for
	Keith Westmoreland	1200 Smith St Ste 1700 Houston, TX 77002	7137562482 (WP)	Responsible Official for

Related Organizations:	Name	Address	Phone (Type)	Relationship
	Cody Energy LLC	1700 Youngs Rd Morgan City, LA 70381	2815985710 (WP)	Formerly owned
	Phoenix Exploration Co LP	1200 Smith St Ste 1700 Houston, TX 77002	7137562482 (WP)	Emission Inventory Billing Party
	Phoenix Exploration Co LP	1200 Smith St Ste 1700 Houston, TX 77002	7137562482 (WP)	Water Billing Party for
	Phoenix Exploration Co LP	1200 Smith St Ste 1700 Houston, TX 77002	7137562482 (WP)	Air Billing Party for
	Phoenix Exploration Co LP	1200 Smith St Ste 1700 Houston, TX 77002	7137562482 (WP)	Operates
	Phoenix Exploration Co LP	1200 Smith St Ste 1700 Houston, TX 77002	7137562482 (WP)	Owns

NAIC Codes: 21111, Crude Petroleum and Natural Gas Extraction

Note: This report entitled "General Information" contains a summary of facility-level information contained in LDEQ's TEMPO database for this facility and is not considered a part of the permit. Please review the information contained in this document for accuracy and completeness. If any changes are required or if you have questions regarding this document, you may contact Ms. Tommie Milam, Permit Support Services Division, at (225) 219-3259 or email your changes to facupdate@la.gov.

INVENTORIES

AI ID: 25990 - SE Avery Island McIlhenny #1 Production Barge
Activity Number: PER20090002
Permit Number: 1280-00070-05
Air - Minor (Synthetic) Modification

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
Internal Combustion Engine Waukesha 5108 GL:						
Generator						
EQT 0025	52-09-ICE-ES - Waukesha 5108 GL Combustion Engine		893 horsepower	893 horsepower	893 horsepower	8760 hr/yr
EQT 0026	53-09-ICE-ES - Waukesha 5108 GL Combustion Engine		893 horsepower	893 horsepower	893 horsepower	8760 hr/yr
Facility Wide						
EQT 0001	004 - Glycol Regenerator Burner Stack		.15 MM BTU/hr	.15 MM BTU/hr	.15 MM BTU/hr	8760 hr/yr
EQT 0002	007 - Glycol Regenerator Burner Stack		.15 MM BTU/hr	.15 MM BTU/hr	.15 MM BTU/hr	8760 hr/yr
EQT 0003	008 - Glycol Regenerator - Still Column/Condenser		912.5 MM scf/yr	912.5 MM scf/yr	912.5 MM scf/yr	8760 hr/yr
EQT 0004	009 - Glycol Regenerator - Still Column/Condenser		912.5 MM scf/yr	912.5 MM scf/yr	912.5 MM scf/yr	8760 hr/yr
EQT 0005	012A - 1000 BBL Oil Storage Tank-Common Vent	1000 bbl				8760 hr/yr
EQT 0006	012B - 1000 BBL Oil Storage Tank-Common Vent	1000 bbl				8760 hr/yr
EQT 0007	012C - 1000 BBL Water Storage Tank-Common Vent	1000 bbl	730000 bbl/yr	730000 bbl/yr	730000 bbl/yr	8760 hr/yr
EQT 0008	015A - 1500 BBL Oil Storage Tank-Common Vent	1500 bbl	228125 bbl/yr	228125 bbl/yr	228125 bbl/yr	8760 hr/yr
EQT 0009	015B - 1500 BBL Oil Storage Tank-Common Vent	1500 bbl	228125 bbl/yr	228125 bbl/yr	228125 bbl/yr	8760 hr/yr
EQT 0010	015C - 1500 BBL Gun Barrel Tank-Common Vent	1500 bbl	730000 bbl/yr	730000 bbl/yr	730000 bbl/yr	8760 hr/yr
EQT 0011	016 - Loading Losses - Oil Transfer to Marine Barge		456250 bbl/yr	456250 bbl/yr	456250 bbl/yr	912.5 hr/yr
EQT 0012	19-02-PC - Pneumatic Controllers		3.8 MM scf/yr	3.8 MM scf/yr	3.8 MM scf/yr	8760 hr/yr
EQT 0013	20-02-ICE-ES - Caterpillar G398 NA-HCR Gas Compressor Engine, with a catalytic converter		412 horsepower	412 horsepower	412 horsepower	8760 hr/yr
EQT 0014	21-02-ICE-ES - Waukesha VRG 220; SWD Pump, Combustion Engine		53 horsepower	53 horsepower	53 horsepower	8760 hr/yr
EQT 0015	23-02-GDP - Gas Operated Pump (Chemical Injection)		.184 MM scf/hr	.184 MM scf/hr	.184 MM scf/hr	8760 hr/yr
EQT 0016	24-02-GDP - Gas Operated Pump (Chemical Injection)		.184 MM scf/hr	.184 MM scf/hr	.184 MM scf/hr	8760 hr/yr
EQT 0017	25-02-GDP - Gas Operated Pump (Chemical Injection)		.184 MM scf/hr	.184 MM scf/hr	.184 MM scf/hr	8760 hr/yr
EQT 0018	26-02-GDP - Gas Operated Pump (Chemical Injection)		.184 MM scf/hr	.184 MM scf/hr	.184 MM scf/hr	8760 hr/yr
EQT 0019	27-02-GDP - Gas Operated Pump (Chemical Injection)		.184 MM scf/hr	.184 MM scf/hr	.184 MM scf/hr	8760 hr/yr
EQT 0020	33-02-F - Flare		3.8 MM BTU/hr	3.8 MM BTU/hr	3.8 MM BTU/hr	8760 hr/yr
EQT 0021	50a-02-OSBC - 3335 BBL Oil Storage Barge Compartment-Vent	3335 bbl	152083.33 bbl/yr	152083.33 bbl/yr	152083.33 bbl/yr	8760 hr/yr
EQT 0022	50b-02-OSBC - 3335 BBL Oil Storage Barge Compartment-Vent	3335 bbl	152083.33 bbl/yr	152083.33 bbl/yr	152083.33 bbl/yr	8760 hr/yr
EQT 0023	50c-02-OSBC - 3335 BBL Oil Storage Barge Compartment-Vent	3335 bbl	152083.33 bbl/yr	152083.33 bbl/yr	152083.33 bbl/yr	8760 hr/yr
EQT 0024	51-09-ICE-ES - GM 3.0L Combustion Engine		42 horsepower	42 horsepower	42 horsepower	500 hr/yr
EQT 0027	54-09-ICE-ES - Detroit Diesel 4-71; Diesel-Fired Sales Pump Combustion Engine		160 horsepower	160 horsepower	160 horsepower	2500 hr/yr
EQT 0028	55-09-HT-WG - Heater Treater-Waste Gas		8.8 MM scf/yr	8.8 MM scf/yr	8.8 MM scf/yr	8760 hr/yr
FUG 0001	017 - Fugitive Emissions					8760 hr/yr

INVENTORIES

AJ ID: 25990 - SE Avery Island McIlhenny #1 Production Barge
Activity Number: PER20090002
Permit Number: 1280-00070-05
Air - Minor (Synthetic) Modification

Stack Information:

ID	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (oF)
Internal Combustion Engine Waukesha 5108 GL;							
Generator							
EQT 0025	52-09-ICE-ES - Waukesha 5108 GL Combustion Engine	341	4019	.5		10	1000
EQT 0026	53-09-ICE-ES - Waukesha 5108 GL Combustion Engine	341	4019	.5		10	1000
Facility Wide							
EQT 0001	004 - Glycol Regenerator Burner Stack	6	66	.5		15	500
EQT 0002	007 - Glycol Regenerator Burner Stack	6	66	.5		15	500
EQT 0005	012A - 1000 BBL Oil Storage Tank-Common Vent			21.5		16	
EQT 0006	012B - 1000 BBL Oil Storage Tank-Common Vent			21.5		16	
EQT 0007	012C - 1000 BBL Water Storage Tank-Common Vent			21.5		16	
EQT 0008	015A - 1500 BBL Oil Storage Tank-Common Vent			21.5		24	
EQT 0009	015B - 1500 BBL Oil Storage Tank-Common Vent			21.5		24	
EQT 0010	015C - 1500 BBL Gun Barrel Tank-Common Vent			21.5		24	
EQT 0011	016 - Loading Losses - Oil Transfer to Marine Barge	.7	2.9	.3		5	70
EQT 0012	19-02-PC - Pneumatic Controllers						70
EQT 0013	20-02-ICE-ES - Caterpillar G398 NA-HCR Gas Compressor Engine, with a catalytic converter	75	2251	.8		25	1100
EQT 0014	21-02-ICE-ES - Waukesha VRG 220; SWD Pump, Combustion Engine	127	239	.2		10	1000
EQT 0015	23-02-GDP - Gas Operated Pump (Chemical Injection)	16	.3	.02		2	70
EQT 0016	24-02-GDP - Gas Operated Pump (Chemical Injection)	16	.3	.02		2	70
EQT 0017	25-02-GDP - Gas Operated Pump (Chemical Injection)	16	.3	.02		2	70
EQT 0018	26-02-GDP - Gas Operated Pump (Chemical Injection)	16	.3	.02		2	70
EQT 0019	27-02-GDP - Gas Operated Pump (Chemical Injection)	16	.3	.02		2	70
EQT 0020	33-02-F - Flare	486	2062	.3		25	1500
EQT 0021	50a-02-OSBC - 3335 BBL Oil Storage Barge Compartment-Vent	.8	.4	.1		10	70
EQT 0022	50b-02-OSBC - 3335 BBL Oil Storage Barge Compartment-Vent	.8	.4	.1		10	70
EQT 0023	50c-02-OSBC - 3335 BBL Oil Storage Barge Compartment-Vent	.8	.4	.1		10	70
EQT 0024	51-09-ICE-ES - GM 3.0L Combustion Engine	16	189	.5		10	1000
EQT 0027	54-09-ICE-ES - Detroit Diesel 4-71; Diesel-Fired Sales Pump Combustion Engine	82	960	.5		10	700
FUG 0001	017 - Fugitive Emissions						70

Relationships:

ID	Description	Relationship	ID	Description
EQT 0003	008 - Glycol Regenerator - Still Column/Condenser	Controlled by	EQT 0020	33-02-F - Flare

INVENTORIES

AI ID: 25990 - SE Avery Island McIlhenny #1 Production Barge
Activity Number: PER20090002
Permit Number: 1280-00070-05
Air - Minor (Synthetic) Modification

Relationships:

ID	Description	Relationship	ID	Description
EQT 0004	009 - Glycol Regenerator - Still Column/Condenser	Controlled by	EQT 0020	33-02-F - Flare
EQT 0005	012A - 1000 BBL Oil Storage Tank-Common Vent	Controlled by	EQT 0020	33-02-F - Flare
EQT 0006	012B - 1000 BBL Oil Storage Tank-Common Vent	Controlled by	EQT 0020	33-02-F - Flare
EQT 0007	012C - 1000 BBL Water Storage Tank-Common Vent	Controlled by	EQT 0020	33-02-F - Flare
EQT 0008	015A - 1500 BBL Oil Storage Tank-Common Vent	Controlled by	EQT 0020	33-02-F - Flare
EQT 0009	015B - 1500 BBL Oil Storage Tank-Common Vent	Controlled by	EQT 0020	33-02-F - Flare
EQT 0010	015C - 1500 BBL Gun Barrel Tank-Common Vent	Controlled by	EQT 0020	33-02-F - Flare
EQT 0028	55-09-HT-WG - Heater Treater-Waste Gas	Controlled by	EQT 0020	33-02-F - Flare

Subject Item Groups:

ID	Group Type	Group Description
CRG 0001	Common Requirements Group	CRG0001 - Glycol Regenerator Boilers
CRG 0002	Common Requirements Group	CRG0002 - Glycol Regenerator Still Columns/Condensers
CRG 0003	Common Requirements Group	CRG0003 - Combustion Engines
CRG 0004	Common Requirements Group	CRG0004 - Combustion Engines >= 500hp, no catalytic converter
PCS 0001	Process Group	CAP1 - Internal Combustion Engine Waukesha 5108 GL; Generator
UNF 0001	Unit or Facility Wide	UNF0001 - Facility Wide

Group Membership:

ID	Description	Member of Groups
EQT 0001	004 - Glycol Regenerator Burner Slack	CRG000000000001
EQT 0002	007 - Glycol Regenerator Burner Slack	CRG000000000001
EQT 0003	008 - Glycol Regenerator - Still Column/Condenser	CRG000000000002
EQT 0004	009 - Glycol Regenerator - Still Column/Condenser	CRG000000000002
EQT 0013	20-02-ICE-ES - Caterpillar G398 NA-HCR Gas Compressor Engine, with a catalytic converter	CRG000000000003
EQT 0014	21-02-ICE-ES - Waukesha VRG 220; SWD Pump, Combustion Engine	CRG000000000003
EQT 0024	51-09-ICE-ES - GM 3.0L Combustion Engine	CRG000000000003
EQT 0025	52-09-ICE-ES - Waukesha 5108 GL Combustion Engine	CRG000000000003, CRG000000000004, PCS000000000001
EQT 0026	53-09-ICE-ES - Waukesha 5108 GL Combustion Engine	CRG000000000003, CRG000000000004, PCS000000000001
EQT 0027	54-09-ICE-ES - Detroit Diesel 4-71; Diesel-Fired Sales Pump Combustion Engine	CRG000000000003

NOTE: The UNF group relationship is not printed in this table. Every subject item is a member of the UNF group

Annual Maintenance Fee:

Fee Number	Air Contaminant Source	Multiplier	Units Of Measure
0040	0040 Crude Oil and Natural Gas Production (Less than 100 T/Yr Source)		

INVENTORIES

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Permit Number: 1280-00070-05
Air - Minor (Synthetic) Modification

SIC Codes:

1311	Crude petroleum and natural gas	AI 25990
1311	Crude petroleum and natural gas	UNF 001

EMISSION RATES FOR CRITERIA POLLUTANTS
AI ID: 25990 - SE Avery Island McIlhenny #1 Production Barge
Activity Number: PER20090002
Permit Number: 1280-00070-05
Air - Minor (Synthetic) Modification

Subject Item	CO			NOx			PM10			SO2			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year												
Internal Combustion Engine Waukesha 5108 GL; Generator															
EOT 0025 52-09-ICE-ES		10.34			8.86			0.08		0.01				2.41	
EOT 0026 53-09-ICE-ES		10.34			8.86			0.08		0.01				2.41	
Facility Wide															
EOT 0001 004	0.02	0.02	0.06	0.02	0.02	0.07	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
EOT 0002 007	0.02	0.02	0.06	0.02	0.02	0.07	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
EOT 0011 016													20.93	33.49	9.55
EOT 0012 19-02-PC													3.67	3.67	16.06
EOT 0013 20-02-ICE-ES	12.45	15.56	54.51	11.54	14.42	50.53	0.05	0.05	0.20	<0.01	<0.01	0.01	0.24	0.30	1.05
EOT 0014 21-02-ICE-ES	1.05	1.31	4.61	1.05	1.31	4.61	0.01	0.01	0.03	<0.01	<0.01	<0.01	0.03	0.04	0.14
EOT 0015 23-02-GDP													0.18	0.18	0.78
EOT 0016 24-02-GDP													0.18	0.18	0.78
EOT 0017 25-02-GDP													0.18	0.18	0.78
EOT 0018 26-02-GDP													0.18	0.18	0.78
EOT 0019 27-02-GDP													0.18	0.18	0.78
EOT 0020 33-02-F	1.06	1.06	4.62	0.53	0.53	2.32	0.03	0.03	0.11	<0.01	<0.01	0.01	1.73	1.73	7.57
EOT 0021 50-02-OSBC													2.51	2.51	10.97
EOT 0022 50-02-OSBC													2.51	2.51	10.97
EOT 0023 50-02-OSBC													2.51	2.51	10.97
EOT 0024 51-09-ICE-ES	3.53	4.41	0.88	0.48	0.59	0.12	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	0.03	0.01
EOT 0027 54-09-ICE-ES	1.37	1.64	1.71	6.35	7.62	7.94	0.45	0.54	0.56	0.42	0.50	0.52	0.45	0.53	0.56
FUG 0001 017															
PCS 0001 CAP1	6.89		30.19	5.91		25.87	0.08		0.35	0.01		0.03	1.93	0.55	2.42

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote.

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 25990 - SE Avery Island McIlhenny #1 Production Barge

Activity Number: PER20090002

Permit Number: 1280-00070-05

Air - Minor (Synthetic) Modification

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0011 016	Benzene	0.02	0.03	0.01
	n-Hexane	1.87	2.99	0.86
EQT 0012 19-02-PC	2,2,4-Trimethylpentane	0.01	0.01	0.06
	Benzene	0.01	0.01	0.05
	Toluene	0.01	0.01	0.05
	Xylene (mixed isomers)	<0.01	<0.01	0.01
	n-Hexane	0.05	0.05	0.24
EQT 0013 20-02-ICE-ES	Benzene	0.02	0.02	0.09
	Formaldehyde	0.04	0.04	0.17
	Methanol	0.01	0.01	0.03
	Toluene	0.01	0.01	0.03
	Xylene (mixed isomers)	<0.01	<0.01	0.01
EQT 0014 21-02-ICE-ES	Benzene	<0.01	<0.01	0.01
	Formaldehyde	0.01	0.01	0.03
EQT 0015 23-02-GDP	n-Hexane	<0.01	<0.01	0.01
EQT 0016 24-02-GDP	n-Hexane	<0.01	<0.01	0.01
EQT 0017 25-02-GDP	n-Hexane	<0.01	<0.01	0.01
EQT 0018 26-02-GDP	n-Hexane	<0.01	<0.01	0.01
EQT 0019 27-02-GDP	n-Hexane	<0.01	<0.01	0.01
EQT 0020 33-02-F	2,2,4-Trimethylpentane	<0.01	<0.01	0.01
	Benzene	0.01	0.01	0.05
	Toluene	0.01	0.01	0.06
	Xylene (mixed isomers)	0.01	0.01	0.03
	n-Hexane	0.03	0.03	0.15
EQT 0021 50a-02-OSBC	2,2,4-Trimethylpentane	<0.01	<0.01	0.01
	n-Hexane	0.22	0.22	0.98
EQT 0022 50b-02-OSBC	2,2,4-Trimethylpentane	<0.01	<0.01	0.01
	n-Hexane	0.22	0.22	0.98
EQT 0023 50c-02-OSBC	2,2,4-Trimethylpentane	<0.01	<0.01	0.01
	n-Hexane	0.22	0.22	0.98
EQT 0025 52-09-ICE-ES	Acetaldehyde		0.01	
	Biphenyl		<0.01	
	Formaldehyde		0.23	

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 25990 - SE Avery Island McIlhenny #1 Production Barge

Activity Number: PER20090002

Permit Number: 1280-00070-05

Air - Minor (Synthetic) Modification

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0025 52-09-ICE-ES	Methanol		0.01	
EQT 0026 53-09-ICE-ES	Acetaldehyde		0.01	
	Biphenyl	<	<0.01	
	Formaldehyde		0.23	
	Methanol		0.01	
FUG 0001 017	Benzene	<0.01	<0.01	<0.01
	Toluene	<0.01	<0.01	0.01
	n-Hexane	<0.01	<0.01	0.02
PCS 0001 CAP1	Acetaldehyde	0.01		0.04
	Biphenyl			0.01
	Formaldehyde	0.23		0.99
	Methanol	0.01		0.04
UNF 0001 UNF0001	2,2,4-Trimethylpentane			0.07
	Acetaldehyde			0.04
	Benzene			0.24
	Biphenyl			0.01
	Formaldehyde			1.19
	Methanol			0.07
	Propylene			0.01
	Toluene			0.15
	Xylene (mixed isomers)			0.05
	n-Hexane			4.26

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote. Emission rates attributed to the UNF reflect the sum of the TAP/HAP limits of the individual emission points (or caps) under this permit, but do not constitute an emission cap.

SPECIFIC REQUIREMENTS

AI ID: 25990 - SE Avery Island McIlhenny #1 Production Barge

Activity Number: PER20090002

Permit Number: 1280-00070-05

Air - Minor (Synthetic) Modification

PCS 0001 CAP1 - Internal Combustion Engine Waukesha 5108 GL; Generator

Group Members: EQT 0025EQT 0026

- 1 [LAC33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
Which Months: All Year Statistical Basis: None specified
- 2 [LAC33:III.1311.C] Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
Which Months: All Year Statistical Basis: Six-minute average
- 3 [LAC33:III.501.C.6] The combined runtime for the two Generators (EQT0025 and EQT0026) shall not exceed 8760 hours per year. Records of operating time shall be kept for each engine and the combined runtime shall not exceed 8760 hours in any 12 consecutive month period.

Group: PCS 0001 Internal Combustion Engine Waukesha 5108 GL; Generator

Group Members: EQT 0025EQT 0026

EQT 0025 52-094CE-ES - Waukesha 5108 GL Combustion Engine

- 4 [40 CFR 63.6590(c)] Meet the requirements of 40 CFR 60 Subpart IIII for compression ignition engines or 40 CFR 60 Subpart JJJJ for spark ignition engines.
Subpart ZZZZ: [40 CFR 63.6590(c)]

EQT 0026 53-094CE-ES - Waukesha 5108 GL Combustion Engine

- 5 [40 CFR 63.6590(c)] Meet the requirements of 40 CFR 60 Subpart IIII for compression ignition engines or 40 CFR 60 Subpart JJJJ for spark ignition engines.
Subpart ZZZZ: [40 CFR 63.6590(c)]

CRG 0001 CRG0001 - Glycol Regenerator Boilers

Group Members: EQT 0001EQT 0002

- 6 [LAC33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
Which Months: All Year Statistical Basis: None specified
Total suspended particulate <= 0.6 lb/MMBTU of heat input.
Which Months: All Year Statistical Basis: None specified
- 7 [LAC33:III.1313.C]

CRG 0002 CRG0002 - Glycol Regenerator Still Columns/Condensers

Group Members: EQT 0003EQT 0004

SPECIFIC REQUIREMENTS

AI ID: 25990 - SE Avery Island McIlhenny #1 Production Barge
Activity Number: PER20090002
Permit Number: 1280-00070-05
Air - Minor (Synthetic) Modification

CRG 0002 CRG0002 - Glycol Regenerator Still Columns/Condensers

- 8 [40 CFR 63.760(e)] Maintain records as specified in 40 CFR 63.10(b)(3). Subpart HH. [40 CFR 63.760(e)]
- 9 [40 CFR 63.774(d)] Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Keep records of the information specified in 40 CFR 63.774(d)(i) or (d)(ii), as applicable. Subpart HH. [40 CFR 63.774(d)]
- 10 [LAC 33:III.2116.F.4.a] Operating time recordkeeping by electronic or hard copy annually. Keep records of the total hours of operation.
- 11 [LAC 33:III.2116.F.4.b] Throughput recordkeeping by electronic or hard copy daily. Keep records of the actual throughput per day and the glycol circulation rate.

CRG 0003 CRG0003 - Combustion Engines

Group Members: EQT 0013EQT 0014EQT 0024EQT 0025EQT 0026EQT 0027

- 12 [LAC 33:III.1311.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
 Which Months: All Year Statistical Basis: None specified
- 13 [LAC 33:III.1311.C] Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
 Which Months: All Year Statistical Basis: Six-minute average

CRG 0004 CRG0004 - Combustion Engines >= 500hp, no catalytic converter

Group Members: EQT 0025EQT 0026

- 14 [LAC 33:III.501.C.6] Equipment/operational data recordkeeping by electronic or hard copy semiannually (six months after the stack test or previous semiannual test, plus or minus 30 days). Report contains a complete performance and condition analysis, adjustments made, and list for future repairs and/or maintenance work, including scheduled date.
 Equipment/operational data recordkeeping by electronic or hard copy semiannually. Recorded parameters are NOx, CO, O2, SO2 and VOC concentrations in the stack gas obtained during semiannual testing.
- 15 [LAC 33:III.501.C.6] Stack gas concentration: Oxygen monitored by portable analyzer semiannually (six months after the stack test or previous semiannual test, plus or minus 30 days). Maintain concentrations of O2 in the same range as during the initial stack test. Calibrate portable analyzers before each test using a known reference gas sample.
 Which Months: All Year Statistical Basis: None specified
- 17 [LAC 33:III.501.C.6] Submit report: Due within 60 days after performance/emissions test. Submit emissions test results to the Office of Environmental Assessment. The test results summary shall include any necessary conversion into the units of any applicable Standard. (lbs/MMBtu, gr/dscf, lbs SO2 / ton 100% H2SO4, Etc.) Plant and in house laboratory data to support production values shall be included. (Example: how many tons of 100% equivalent H2SO4 was being produced) Units tested at less than 95% of permitted maximum capacity shall provide documentation to support compliance at 100% of the permitted maximum capacity.

SPECIFIC REQUIREMENTS

AI ID: 25990 - SE Avery Island McIlhenny #1 Production Barge

Activity Number: PER20090002

Permit Number: 1280-00070-05

Air - Minor (Synthetic) Modification

CRG 0004 CRG0004 - Combustion Engines >= 500hp, no catalytic converter

- 18 [LAC 33:III.501.C.6] Equipment/operational data monitored by portable analyzer daily at manned stations, otherwise weekly. Maintain monitored parameters (inlet manifold temperature and pressure, fuel header pressure, diesel rack position (fuel flow), and injector timing) in the same range as during the initial stack test.
Which Months: All Year Statistical Basis: None specified
- 19 [LAC 33:III.501.C.6] Equipment/operational data monitored by portable analyzer daily at manned stations, otherwise weekly. Maintain monitored parameters (inlet manifold temperature and pressure, fuel header pressure, engine speed, and spark ignition timing) in the same range as during the initial stack test.
Which Months: All Year Statistical Basis: None specified
- 20 [LAC 33:III.501.C.6] Stack gas concentration: Carbon monoxide monitored by portable analyzer semiannually (six months after the stack test or previous semiannual test, plus or minus 30 days). Maintain concentrations of CO in the same range as during the initial stack test. Calibrate portable analyzers before each test using a known reference gas sample.
Which Months: All Year Statistical Basis: None specified
- 21 [LAC 33:III.501.C.6] Equipment/operational data recordkeeping by electronic or hard copy daily at manned stations, otherwise weekly. Recorded parameters are intake manifold temperature and pressure, fuel header pressure, diesel rack position (fuel flow), and injector timing.
- 22 [LAC 33:III.501.C.6] Equipment/operational data recordkeeping by electronic or hard copy daily at manned stations, otherwise weekly. Recorded parameters are intake manifold temperature and pressure, fuel header pressure, engine speed, and spark ignition timing.
- 23 [LAC 33:III.501.C.6] Stack gas concentration: Nitrogen oxides monitored by portable analyzer semiannually (six months after the stack test or previous semiannual test, plus or minus 30 days). Maintain concentrations of NOx in the same range as during the initial stack test. Calibrate portable analyzers before each test using a known reference gas sample.
Which Months: All Year Statistical Basis: None specified
- 24 [LAC 33:III.501.C.6] Submit notification: Due at least 30 days prior to any LDEQ required performance/emissions test to the Office of Environmental Assessment, to provide the opportunity to conduct a pretest meeting and observe the emission testing.
- 25 [LAC 33:III.501.C.6] Demonstrate compliance with CO and NOX emission limits of this permit by performing semiannual preventive maintenance analysis and necessary adjustment to maintain compressor/engine performance and emissions in the same range as the initial stack test. Include in this analysis a complete compressor/engine unit performance testing for the natural gas fired internal combustion engine. Include in periodic engine analysis the following: 1) Setup, calibrate, and synchronize the performance analysis equipment per manufacturer's specification. Submit a procedural write up to LDEQ and keep on site. 2) Perform a power cylinder performance analysis with checks for combustion stability, peak pressure angle, detection of misfires, detonation, and pre-ignition. 3) Perform a primary and secondary ignition analysis including checking the ignition timing on each spark plug. 4) Perform a vibration analysis for the detection of mechanical problems such as worn leaking piston rings, piston/cylinder wear, fuel injection problems, etc. 5) Perform a compressor end analysis for detection of leaking valves or rings, or unnecessary recirculation of gas. 6) Check and record the IHP (indicated horsepower) on each end of each compressor cylinder. Determine the compressor load. Observe the PT (pressure vs. time) pattern, the PV (pressure vs. volume) pattern, and vibration traces on the analyzer oscilloscope. Take pictures of these traces for each cylinder. 7) Check and record the BMEP (brake mean effective pressure) on all power cylinders and check all hydraulic lifter adjustments. 8) Balance the load on all power cylinders by indicated horsepower. 9) Reread the IHP on each power cylinder and take pictures of the traces of each cylinder (e.g., PT, PV, and vibration).

SPECIFIC REQUIREMENTS

AI ID: 25990 - SE Avery Island McIlhenny #1 Production Barge

Activity Number: PER20090002

Permit Number: 1280-00070-05

Air - Minor (Synthetic) Modification

CRG 0004 CRG0004 - Combustion Engines >= 500hp, no catalytic converter

26 [LAC 33:III.501.C.6]

Conduct a performance/emissions test: Due within 180 days after initial startup (or restart-up after modification), or within 60 days after achieving normal production rate or end of the shutdown period, whichever is earliest. The stack test's purpose is to demonstrate compliance with the emission limits of this permit and therefore must be conducted at greater than 80% of maximum permitted capacity. Repeat the test after each major engine overhaul. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 7E - Determination of Nitrogen Oxides Emissions from Stationary Sources and Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.

EQT 0013 20-02-ICE-ES - Caterpillar G398 NA-HCR Gas Compressor Engine, with a catalytic converter

27 [LAC 33:III.501.C.6]

Stack gas concentration: Oxygen monitored by portable analyzer annually (twelve months after the stack test or previous annual test, plus or minus 30 days). Maintain concentrations of O₂ in the same range as during the initial stack test. Calibrate portable analyzers before each test using a known reference gas sample.

Which Months: All Year Statistical Basis: None specified

28 [LAC 33:III.501.C.6]

Submit notification: Due at least 30 days prior to any LDEQ required performance/emissions test to the Office of Environmental Assessment, to provide the opportunity to conduct a pretest meeting and observe the emission testing.

29 [LAC 33:III.501.C.6]

Conduct a performance/emissions test: Due within 180 days after initial startup (or restart-up after modification), or within 60 days after achieving normal production rate or end of the shutdown period, whichever is earliest. The stack test's purpose is to demonstrate compliance with the emission limits of this permit and therefore must be conducted at greater than 80% of maximum permitted capacity. Repeat the test after each major engine overhaul. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 7E - Determination of Nitrogen Oxides Emissions from Stationary Sources and Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.

30 [LAC 33:III.501.C.6]

Stack gas concentration: Carbon monoxide monitored by portable analyzer annually (twelve months after the stack test or previous annual test, plus or minus 30 days). Maintain concentrations of CO in the same range as during the initial stack test. Calibrate portable analyzers before each test using a known reference gas sample.

Which Months: All Year Statistical Basis: None specified

31 [LAC 33:III.501.C.6]

Equipment/operational data recordkeeping by electronic or hard copy annually. Recorded parameters are NO_x, CO, O₂, SO₂ and VOC concentrations in the stack gas obtained during annual testing.

32 [LAC 33:III.501.C.6]

Submit report: Due within 60 days after performance/emissions test. Submit emissions test results to the Office of Environmental Assessment. The test results summary shall include any necessary conversion into the units of any applicable Standard. (lbs/MMBtu, gr/dscf, lbs SO₂ / ton 100% H₂SO₄, Etc.) Plant and in house laboratory data to support production values shall be included. (Example: how many tons of 100% equivalent H₂SO₄ was being produced) Units tested at less than 95% of permitted maximum capacity shall provide documentation to support compliance at 100% of the permitted maximum capacity.

SPECIFIC REQUIREMENTS

AI ID: 25990 - SE Avery Island McIlhenny #1 Production Barge
Activity Number: PER20090002
Permit Number: 1280-00070-05
Air - Minor (Synthetic) Modification

EQT 0013 20-02-ICE-ES - Caterpillar G398 NA-HCR Gas Compressor Engine, with a catalytic converter

33 [LAC 33:III.501.C.6] Stack gas concentration: Nitrogen oxides monitored by portable analyzer annually (twelve months after the stack test or previous annual test, plus or minus 30 days). Maintain concentrations of NOx in the same range as during the initial stack test. Calibrate portable analyzers before each test using a known reference gas sample.
 Which Months: All Year Statistical Basis: None specified

EQT 0020 33-02-F - Flare

- 34 [LAC 33:III.1105] Submit notification: Due to SPOC as soon as possible after the start of burning of pressure valve releases for control over process upsets. Notify in accordance with LAC 33:1.3923. Notification is required only if the upset cannot be controlled in six hours.
- 35 [LAC 33:III.1105] Opacity <= 20 percent, except for a combined total of six hours in any 10 consecutive day period, for burning in connection with pressure valve releases for control over process upsets.
 Which Months: All Year Statistical Basis: None specified
- 36 [LAC 33:III.1311.C] Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
 Which Months: All Year Statistical Basis: Six-minute average
- 37 [LAC 33:III.501.C.6] Opacity <= 20 percent average of the shade or appearance of the emission. Do not exceed for a combined total six hours in any 10 consecutive days.
 Which Months: All Year Statistical Basis: None specified
- 38 [LAC 33:III.501.C.6] Opacity monitored by 40 CFR 60, Appendix A, Method 9 upon occurrence of event. Monitor during the next required visible emissions check, if visible emissions are detected for a period longer than six hours in any 10 consecutive days. If the shade or appearance of the emission is darker than 20 percent average opacity, take corrective action to return the flare to its proper operating condition, and repeat the opacity reading in accordance with Method 9 during the next required visible emissions check.
 Which Months: All Year Statistical Basis: None specified
- 39 [LAC 33:III.501.C.6] Visible emissions monitored by visual inspection/determination continuously during a process upset event.
 Which Months: All Year Statistical Basis: None specified
- 40 [LAC 33:III.501.C.6] Develop a corrective action plan for re-lighting the flare. Keep plan readily available for immediate implementation in the event the flare needs to be re-lit.
- 41 [LAC 33:III.501.C.6] Presence of a flame monitored by visual inspection/determination daily.
 Which Months: All Year Statistical Basis: None specified
- 42 [LAC 33:III.501.C.6] Presence of a flame recordkeeping by electronic or hard copy daily.
- 43 [LAC 33:III.501.C.6] Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Record the information associated with visible emission checks, including the flare device's ID number, the date the visual check was performed, whether visible emissions were detected for a period longer than 6 hours in any 10 consecutive days, the results of any 40 CFR 60, Appendix A, Method 9 testing conducted, and any corrective action employed. Keep records on site and available for inspection by the Office of Environmental Compliance.
 If it appears an emergency cannot be controlled in six hours, notify the Office of Environmental Compliance, Emergency and Radiological Services Division, Single Point of Contact (SPOC) in accordance with LAC 33:1.3923 as soon as possible after the start of the upset period.
- 44 [LAC 33:III.501.C.6]

SPECIFIC REQUIREMENTS

AI ID: 25990 - SE Avery Island McIlhenny #1 Production Barge

Activity Number: PER20090002

Permit Number: 1280-00070-05

Air - Minor (Synthetic) Modification

EQT 0024 51-09-JCE-ES - GM 3.0L Combustion Engine

- 45 [40 CFR 63.6590(c)] Meet the requirements of 40 CFR 60 Subpart IIII for compression ignition engines or 40 CFR 60 Subpart JJJJ for spark ignition engines. Subpart ZZZZ. [40 CFR 63.6590(c)]
- 46 [LAC 33:III.501.C.6] Recordkeeping shall be kept to verify that runtime shall not exceed 500 hours in any 12 consecutive month period.

EQT 0027 54-09-JCE-ES - Detroit Diesel 4-71; Diesel-Fired Sales Pump Combustion Engine

- 47 [40 CFR 63.6590(c)] Meet the requirements of 40 CFR 60 Subpart IIII for compression ignition engines or 40 CFR 60 Subpart JJJJ for spark ignition engines. Subpart ZZZZ. [40 CFR 63.6590(c)]
- 48 [LAC 33:III.501.C.6] Recordkeeping shall be kept to verify that runtime shall not exceed 2500 hours in any 12 consecutive month period.

EQT 0028 55-09-HT-WG - Heater Treater-Waste Gas

- 49 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
Which Months: All Year Statistical Basis: None specified
- 50 [LAC 33:III.1311.C] Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
Which Months: All Year Statistical Basis: Six-minute average

FUG 0001 017 - Fugitive Emissions

- 51 [LAC 33:III.2111] Equip all rotary pumps and compressors handling volatile organic compounds having a true vapor pressure of 1.5 psia or greater at handling conditions with mechanical seals or other equivalent equipment.

UNF 0001 UNF0001 - Facility Wide

- 52 [40 CFR 63.] All affected facilities shall comply with all applicable provisions in 40 CFR 63 Subpart A as delineated in Table 2 of 40 CFR 63 Subpart HH.
- 53 [LAC 33:III.1103] Emissions of smoke which pass onto or across a public road and create a traffic hazard by impairment of visibility as defined in LAC 33:III.111 or intensify an existing traffic hazard condition are prohibited.
- 54 [LAC 33:III.1109.B] Outdoor burning of waste material or other combustible material is prohibited.
- 55 [LAC 33:III.1303.B] Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility or intensify an existing traffic hazard condition are prohibited.
- 56 [LAC 33:III.2113.A] Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33:III.2113.A.1-5.

SPECIFIC REQUIREMENTS**AI ID: 25990 - SE Avery Island McIlhenny #1 Production Barge****Activity Number: PER20090002****Permit Number: 1280-00070-05****Air - Minor (Synthetic) Modification****UNF 0001 UNF0001 - Facility Wide**

- 57 [LAC 33:III.219] Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance.
- 58 [LAC 33:III.2901.D] Discharges of odorous substances at or beyond property lines which cause a perceived odor intensity of six or greater on the specified eight point butanol scale as determined by Method 41 of LAC 33:III.2901.G are prohibited.
- 59 [LAC 33:III.2901.F] If requested to monitor for odor intensity, take and transport samples in a manner which minimizes alteration of the samples either by contamination or loss of material. Evaluate all samples as soon after collection as possible in accordance with the procedures set forth in LAC 33:III.2901.G.
- 60 [LAC 33:III.501.B.4] The owner or operator of any source which is not a major source may apply for an exemption from the permitting requirements of this Chapter provided each of the following criteria are met: i. the source emits and has the potential to emit no more than 5 tons per year of any regulated air pollutant; ii. the source emits and has the potential to emit less than the minimum emission rate listed in LAC 33:III.5112, Table 51.1, for each Louisiana toxic air pollutant; iii. no enforceable permit conditions are necessary to ensure compliance with any applicable requirement; and iv. no public notice is required for any permitting or other activity at the source. Any source to which an exemption is granted under this Paragraph shall be operated in accordance with any terms stated in the exemption and upon which the decision to grant the exemption was based. Failure to operate the source in accordance with the terms of the exemption may terminate such exemption and shall constitute a violation of the general duty to operate under a permit established pursuant to Subsection C of this Section.
- 61 [LAC 33:III.501.C.1] Submit permit application: Due prior to construction, reconstruction or modification unless otherwise provided in LAC 33:III.Chapter 5. Submit a timely and complete permit application to the Office of Environmental Services as required in accordance with the procedures in LAC 33:III.Chapter 5.
- 62 [LAC 33:III.501.C.2] No construction, modification, or operation of a facility which ultimately may result in an initiation or increase in emission of air contaminants as defined in LAC 33:III.111 shall commence until the permit application has been approved, an appropriate permit fee paid (in accordance with LAC 33:III.Chapter 2), and a permit (certificate of approval) has been issued by the permitting authority.
- 63 [LAC 33:III.501.C.4] Operate the source in accordance with all terms and conditions of this permit.
- 64 [LAC 33:III.501.C.6] Comply with terms and conditions incorporated in the permit to ensure compliance with all state and federally applicable air quality requirements and standards at the source, and such other permit terms and conditions as determined by the permitting authority to be reasonable and necessary.
- 65 [LAC 33:III.5611.A] Submit standby plan for the reduction or elimination of emissions during an Air Pollution Alert, Air Pollution Warning, or Air Pollution Emergency: Due within 30 days after requested by the administrative authority.
- 66 [LAC 33:III.5611.B] During an Air Pollution Alert, Air Pollution Warning or Air Pollution Emergency, make the standby plan available on the premises to any person authorized by the department to enforce these regulations.
- 67 [LAC 33:III.919.D] Submit Emission Inventory (EI)/Annual Emissions Statement: Due annually, by the 31st of March for the period January 1 to December 31 of the previous year unless otherwise directed. Submit emission inventory data in the format specified by the Office of Environmental Assessment. Include all data applicable to the emissions source(s), as specified in LAC 33:III.919.A-D.